SEP 20 2006

FROMMER LAWRENCE & HAUG LLP

745 Fifth Avenue New York, New York 10151 Telephone: (212) 588-0800 Facsimile: (212) 588-0500

E-mail: Firm@flhlaw.com

FACSIMILE COVER LETTER

To:

Group Art Unit 1743

Firm:

U.S. Patent and Trademark Office

Facsimile:

571-273-8300

From:

Deborah L. Lu, Registration No. 50,940

Date:

September 20, 2006

Re:

Application No. 10/808,256

FLH Reference No. 674182-2013

Number of Pages: (including cover page)

9

man L. Lu

If you do not receive all pages or are unable to read the transmission, please call and ask for Deborah Lu-

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed is a INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98 and LIST OF REFERENCES CITED BY APPLICANT for filing in connection with U.S. Application No. 10/808,256.

Sincerely.

Deborah L. Lu

Registration No. 50,940

CONFIDENTIALITY NOTICE

The documents accompanying this transmission contain confidential information intended for a specific individual and purpose. The information is private, and is legally protected by law. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or the taking of any action in reliance on the contents of this facsimile is strictly prohibited.

FROMMER LAWRENCE RECEIVED CENTRAL FAX CENTER

SEP 20 2006

PATENT 674182-2013

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s)

Mian et al.

Serial No.

10/808,256

Fог

Devices and methods for using centripetal acceleration to drive

fluid movement in a microfluidics system

Filed

.

March 23, 2004

Examiner

Sines, Brian J

Group Art Unit

1743

Confirmation No.

4157

FACSIMILE

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Deborah L. Lu. Rcg. No. 50.940
Type or print name of person signing certification

Signature

September 20, 2006

Date of Signature

745 Fifth Avenue New York, NY 10151

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The Examiner's attention is respectfully drawn to the enclosed documents listed on the accompanying PTO Form 1449. In accordance with C.F.R. § 1.98(d), no copy of those documents previously submitted to or cited by the U.S. Patent and Trademark Office in predecessor application U.S. Patent Application No. 09/989,582 filed November 20, 2000, of which this application is a divisional, is submitted herewith.

00399162.IXOC

PATENT 674182-2013

Pursuant to 37 CFR §1.97(b)(3), Applicants request the Examiner to consider this Information Disclosure Statement, and to make of record the documents cited on the accompanying PTO form 1449 and that a copy of Form PTO-1449 be initialed by the Examiner and returned to the undersigned.

The filing of this Information Disclosure Statement is not an admission that the documents identified herein constitute prior art to the present application.

It is believed that no fees are required by the instant submission as it is prior to receipt of the first Office Action on the merits. However, if any fees are required for this paper, or if any overpayment has been made, please charge Deposit Acct. No. 50-0320.

Respectfully submitted, FROMMER LAWRENCE & HAUG LLP

By:

Thomas J. Kowalski Reg. No. 32,147 Deborah L. Lu, Ph.D.

Reg. No. 50,940

Telephone: (212) 588-0800 Facsimile: (212) 588-0500

Substitute f	for form 1449A/PTO	*		Compl	ete if Known
				Application No.	101808,266
	INFORMATION D	ISCLOS	RIIRE	Filing Date:	March 23, 2004
	STATEMENT BY			First Named Inventor	Mign et af,
	SIVICINCIAL DI	MI 1 616	, A. I.	Group Art Unit	1743
L	(use as many sheets	88 N 9 C8558	ny)	Examiner Name	Sines Brian J.
Sheet	1	of	6	Attorney Docket No.	674182-2013

Examinar	Cite	U.S. Patent	Document		Date of Publication of	Pages, Columns, Lines
inhietz*	No.	Number	Kind Code ² (if known)	Name of Petentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Pesseges or Figures Appea
		4,729,882		Satallello et al.	July 21, 1981	
		4,381,291		Exins et al.	April 25, 1983	
		4,515,889		Klose et al.	May 7. 1985	· · · · · · · · · · · · · · · · · · ·
		4,678,952		Edelmann et al.	June 30, 1997	·
		4,745,072		Ekins	May 17, 1988	
•		5,160,702		Kopi-Siii	November 3, 1982	
		5,171,695		Ekins .	December 15, 1992	ľ
		5,173,282		Burtis et el.	, December 22, 1992	
		5,242,803		Burtis et al. •	. September 7, 1993	
		5,409,665		Burd	April 25, 1996	
		5,413,732		Buld	May 9, 1995	
		5,432,009		Tabata	July 11, 1995	
		5,472,603		Schembri	December 5, 1995	
•••		5,008,749		White	April 8, 1991	
		5,252,254		Kroy	October 12, 1993	
		5,304,487		Wiking	April 19, 1994	
		6,368,704		Madou	November 29, 1994	
		3,679,367		Negeramith	July 25, 1972	•
		4,940,527		Kazisuskes et al.	July 10, 1990	
		4.515,889		Klose et al.	May 7, 1985	
		5,426,032		Phillips et al.	June 20, 1995	
		4,154,793	1	Gulgan	May 15, 1979	

		_	1	
L Eve		•	Date	
	aminer		Date	
Sign	nature l		Considered	
	1101010		I COlleton on	

^{*}EXAMINER: Initial is retained; an extension of the conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 1.0 hours to complete. Thine will vary departing upon the mode of the inclinated case. Any comments on the annual of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Potent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Passins, Washington, DC, 20231

. .

^{*}Unique stitution spalgration number. * See attached Kinds of U.S. Patent Occurrents. * Enter Clifics that intend the decument, by the bas-initial code (WIPO Standard ST.S).

*For departers patent documents, the indication of the year of the reign of the Empowermust precede the sorbe number of the patent document. * fund of document by the appropriate symbols as indicated on the document under WIPO Standard ST. (6 if possible. * Applicant to to place a check mark term if English translation is procedure.

Substitute	for form 1449A/PTO	•		Comple	nte if Known
: -				Application No.	10/808,256
	INFORMATION DIS	CLOS	SURE	Filing Date:	March 23,2004
	STATEMENT BY A			First Named Inventor	Mian et al.
1	GIVIEWENT DI VI			Group Art Unit	1743
	(use as many sheets as i	necessa	uy)	Examiner Name	sines, Brian
Sheet	2	of	6	Attorney Dooket No.	674182-2013

-				U.S. PATENT DOCUMEN	la .	T
Examiner	Cita	U.S. Patent	Document	Name of Patentee or Applicant of	Date of Publication of	Pages, Columns, Lines Where Relevant
initiats"	No.	Rumber	Kind Code ² (Kindwri)	Cited Document	Ched Document MOA-DD-YYYY	Pareages or Figures Appear
		5,188,844		Burd	February 18, 1993	
		5,122,284		Braynin et al.	- · June 16, 1992	
		5,304,348		Burd et al.	April 19, 1994	
		5,457,053		Burd et al.	October 10, 1995	
		5,478,760		Berstein at al.	December 28, 1995	
	·	5,591,843	ļ	Schembri et al.	January 7, 1997	· ·
		5,518,930		Burd et al.	May 21, 1996	
		5,472,503		Schembri et al.	December 5, 1997	
ı · ·		5,693,233		Schembri	^ `De¢ambar 2, 1997	
]	5,498,520		Kelton et al.	March 5,1996	
		5,061,381		Burd	October 29, 1991	
		5,242,606		Braynin et al.	September 7, 1993	
		5,403,415		8 chembri	April 4, 1995	
		5,173,103	<u> </u>	^ Schembri	December 22, 1992	
		5,275,016		Chatterjee et al.	January 4, 1994	
		5,624,597		ઇંપો સંગ્ર	April 29, 1997	
		5,599,411		Schambri	February 4, 1997	
		6,638,428		Cottingham	June 17, 1997	
		8,319,469		Mian et al.	. November 20, 2001	

i					_	i i
Examiner	-			•	Date	l ₽
			• ••			
Signature		_	٠.		Considered	
		_				استنسسا

TEXAMBLER: longe if researce considered, whemer or not classical to be constructed with 64PEP wills. Only one arrough allocal is not in applications and mot constructed to applicable.

Surdes Hour Statement: This form to estimated to take 2.6 hours to complete. Time will very depending upon the needs of the individual case. Any comments on the emount of line you are required to complete this text should be sent to the Chief information Officer, U.S. Palent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

¹ Unique climites designation number, 2 See subplied fileds of U.S. Palent Decuments. 2 Sees Office that instead the document, by the two-lotter code (MAPO Standard ST.E).

1 For Japanese patent documents, the indication of the year of the mign of the Emporer must precede the serial number of the palent document, 2 Typy of document by the appropriate symbols as indicated on the document whele WIPO Standard ST.10 (f possible, 2 Applicant in to plows a crimin must have if English brandardon in attached.

Substitute t	or form 1449A/PTO	-		Comple	ete if Known
l				Application No.	10/808, 256
	INFORMATION E	ISCLOS	URE	Filing Date:	March 23 2004
	STATEMENT BY			Elist Named Inventor	Mian et al.
ŀ	OINICMBIT DI	W. I PIA		Group Art Unit	1743
	(use as many sheets	as necessar	Λ	Examiner Name	Sihes Brian J
Sheet	3	of	6	Afformey Docket No.	674182-2013

Examiner Initiate*	Cita	[F	oreign Patent Doc	cument		Date of Publication of	Pages, Columns, Lines	Г
	No.	Office ³	Number ⁴	Kind Cade ⁶ (if known)	Name of Patentee or Applicant of Cited Document	Clied Document MM-CD-YYYY	Vihere Referent Passages of Figures Appear	74
		Wo	93/22063		Trustage of the University of PENN	11/11/83		
		wo	99/22058		Trustnes of the University of PENN	11/11/93		
		ඩ	417,305	A1	idemiteu Petrochemical Co. t.td.	3/20/91		
•		EP	616.218	A1	Hitachi, Lld,	9/21/94		
		EP	305,210		Biotrack, Inc.	12/8/93		
		ĘP	322,657		Miles Inc.	7/5/89		Γ
		GER	4,410,224		Gleich Anmelder	9/28/95	. ————————————————————————————————————	
		EP	637,387	B1	ABAXQS, Inc.	12/10/97		
		wo	95/33986		ABAXIS, Inc.	12/14/95		Γ

		OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cita No.	Include name of author (in CAPITAL LETTERS), tills of the suffice (when appropriate), tills of the kem (book, magazine, journal serial, symposium, calalog, etc.), data, page(s), volume-lasue number(s), publisher, city and/or country where published	72
	·	Anderson, "Analytical Techniques for Cell Fractions" (1968), Anal. Biochem., 28: 546-562	
	٠	Acki et al., "Electrochemical Response at Microarray Electrodes in Flowing Streams and Determination of Catecholamines", (1990), Anal. Chem., 62: 2206-2210	
		Arquint et al., "Micromachined Analyzers on a Silicon Chip", (September 1994), Clinical Chemistry, Vol. 40, No. 9, pp. 1805-1809.	

^{*}EXAMENDED: Initial If relations a consistency, whether or not challen is in conformance with MPEP 509. Ones line decough citation If not in conformance and not considered, include copy of this form with next communication to applicant.

Surden New Statement: This form is estimated to take 2.0 hours to complete. Thre will vary depending upon the made of the laddeduct case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Circus; U.S. Peters and Tradement Office, Washington DC 20231. DO NOT SEND TESSOR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Authors Commissioner for Palents, Washington, DC. 20231

Linkpur clation designation, auchier. If the attached Kinds of U.S. Patent Occuments. I Enter Office that issued the document, by the two-letter code (WIPO Stundard ST.3).
For Japanese pases documents, the indication of the year of the rigge of the Emperor must priced the serial number of the judget document. I find of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if provide. Applicant is to place a check matchem if English transition is stached.

	 		
Examiner	•	Date	1
Sionature		Considered	<u> </u>

Substitute 6	or form 1449A/PTO	·	· -	Complete If Known			
					Application No.	10/808,256	
	INFORMATION I	מתומפות	IIDE		Filing Date:	March 23, 2004	
	STATEMENT BY				First Named Inventor	Uian et al.	
	SIMICINGINI DI	ALLEIC	ANI		Group Art Unit	1743	
	(use as many shael	s as necessa	ary)	Examiner Name	sines Brian J.		
Sheet	4	of	L	6	Attorney Dacket No.	674182-2013	

		OTHER DOCUMENTS — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	include name of euthor (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symbosken, catalog, etc.), date, page(s), volume-issue number(a), publisher, city and/or country where published	1
		Ballantine et al., "Surface Acoustic Wave", (June 1989), Anal. Chem., 61/11; pp. 704-715.	
		Bertrand et al., "A One-Step Daterminiation of Secure 5'-nucleotidase using a centrifutgal Analyzer", (1982), Clinica Chimica Ada, 119: 275-284.	
		Blackburn et al., "Electrochemituminescence Detection for Development of Immunoassays and DNA Probe Assays for Clinical Diagnostics", (1991), Clin. Chem., 37/9: 1534-1539.	
		Bor Fuh et al., "Isolation of Human Blood Cells, Platelets, and Plasma Proteins by Centrifugal SPLITT Exectionation", (1995), Biolechnol. Prog., 11: 14-20.	
		Burtis et al., "Optimization and Analytical Application of the Technique of Dynamic Introduction of Liquids into Centrifugal Analyzers", (1974), Clin. Chem., 20: 932-941.	
	_	Burtis et al., *Davelopment of a Multipurpose Optical System for Use with a Centrifugal Fest Analyzer', (1975), Cen. Chem., 21/9: 1225-1233.	
		Cho et al., "Development of a Multichannel Electrochemical Centrifugal Analyzer" (1982), Clin. Chem., 28/9: 1961-1965.	
		Collison et al., "Chemical Sensors for Bedside Monitoring of Critically III Patients" (April 1990), Anal. Chem., 62/7: pp. 425-437.	
		Columbus et al., "Architextured" Fluid Managament of Biological Liquids", (1987), Clin. Chem., 33/9: 1531-1537.	
		Dessy, "Wavaguides as Chamical Sansors", (October 1989), Anal. Cham., 61/19: 1079-1094.	
		Ekins et al., "Multignatyte Microspot immuopassay. The microspatytical 'compact disk' of the future'. (1892), Ann. Biol. Clin., 50: 337-353.	
		Esashi et al., "Anodio Bonding for integrated Capacitive Bensors" (July 1892), Proc. Micro. Electro Mechanical Systems, 11: 43-48.	
	•	Foucault, "Countercurrent Chromatography" (1891), Anal. Chem., 63:	

"EXAMINED: Initial if reference considered, whether or not cheston is in contampence with MPEP 808. Onew time Strough clusters it not be contampence and not considered include copy of the term with nost contampence to applicant.

Burden Hour Elaborant: This form is estimated to take 2.0 hours to complete. Think will vary depending upon the needs of the individual case, Any comments on the employed or complete to complete this form should be sent to the Chief information Officer, U.S. Potent and Trademake Office, Waterington of 2003), DO NOT a Entire Present of the Chief information of the Present of the Chief information of the Present of the Chief information of the

¹ Unique d'Eulon designation number, ³ Applicant le le place a check reark here il English translation is attached.

	- ,	
Examiner	Date	
Signature	Considered	

Substitute 9	or form 1448APTO		Complete If Known		
				Application No.	10/808,256
	INFORMATION DI	SCLOS	URE ,	Filing Deta:	March 23, 2004
	STATEMENT BY		First Named Inventor	Mian et al.	
	SIXILILLII DI	AFF LIO	Group Art Unit	1743	
	(use as many sheets a	e necessay	Examiner Name	Sines Brian J.	
Sheet		of	6	Altomey Docket No.	674182-2013

		OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS		
Externiner Initiats*	CEA Ng.	include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(a), waterna-leave mamber(s). publisher, city end/or couptry where published	ب	
		Fritsche et al., "Enzymatic Endpoint Analysis of Glucosa with the Herokinase Method and the Union Carbide Fast Centribusal Analyzer", (1975), Clin Biochem., 8: 240-246.		
		Glass et al., "Effect of Numerical aperture on signal level in cyfindrical wavegulde evanescent fluorosensors" (June 1987), Appl. Optics, 28/11: 2181-2187		
		Haab et al., "Single Molecule Fluoreschene Burst Detection of DNA Fragments Separated by Geptlery Electrophoresis" Anal. Chem., 1995, 67, 3253-3260.		
·		Hadjitoannou et al., *Automated Enzymic Determination of Fibanol in Blood, Sarum, and Urine with a Miniature Centrifugal Analyze(*, (1976), Clin. Chem. 22/6:802-805.		
		Helneman, "Biosensors Based on Polymer Networks Formed by Gamma Irradiation Crossilnking", (1993). App. Biochem. Biotech., 41: 87-87,		
		Ikada, "Surface Modification of Polymers for Medical Applications", (1994), Blomaterials, 15/10: 725-738.		
		Lamture et al., *Direct Datectoin of Nucleic Acid Hybridization on the Surface of a Charge Coupled Davice*, (1994), Nucleic Acids Res., 22/11: 2121-2125.		
		Lee et al., "Automated System for Fractionation of Blood Samples" (1978), Clin. Chem., 24/8: 1361-1365.		
		Linliu et al., " <u>Development of a Cantrifuoa Ball Viscometer for Polymer Melts</u> ", (1994), Rev. Sci. Instrum., 65/12: 3823-3828.		
		Nakagawa et al., "A Micro Chemical Analyzing System Integrated on a Silicon Water", Proc. IEEE Workshop of Micro Electro Mechanical Systems, pp.89.		
		Poole et al., "Instrumental Thin-Laver Chromatography", (January 1994), Anal. Chem., 68/1: 27A-37A.		
	ı.	Reijenga et al., "Effect of Electrocsmosis on Detection in Isotachophoresis" (1983), J. Chromatography, 260: 241-254.		

TEXAMINER: Initial II reference considered, whether or not cliation is in conformance with MPEP 80%. Draw line through election II not in conformance and not considered, behalve copy of this form with need communication to appropriate

ł

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any commons on the amount or time you are required to compete rule form annual be sent to the case information cases, t.d. Patest and Transmitte Office, Washington DC 20201. DO NOT SICHO PETER AS A COURT STORM TO THE PETER WASHINGTON DC. 20201.

¹ Unique ellucion designacion cumber, ¹ Applicant is to place a chack mark here if English translation is attached.

Examiner	Date	
Signahan	 Considered	
Cidirature		

Substitute for form 1449A/PTO				Complete if Known		
			Application No.	10/808,256		
	INFORMATION	חופכו מ	GHDE		Filing Date:	March 23, 2004
INFORMATION DISCLOSURE STATEMENT BY APPLICANT ::::::::::::::::::::::::::::::::::::					First Named Inventor	Mian et al.
	SIAIEMENI P	MAPPL	CANI		Group Art Unit	1743
	(use as many shea	s as necea	eary)		Examinar Name	Sines Brian J.
Sheet	6	of		6	Attomay Docket No.	674182-2013

inilisis*	in the state of th				
		Renoe et al., "A Versatile Minidisc Module for a Centrifugal Analyzer" (1974), Clain. Chem., 20/8:955-960.			
		Rosenzweig et al., "Laser-Based Particle-Counting Microimmunoassay for the Analysis of Single Human Engineerates" (1994), Anal. Chem., 66: 1771-1776			
		Schembri et al., "Portable Simultaneous Multiple Analyte Whole-Blood Analyzer for Point-of-Cara Testing" (1992), Clin. Chem., 38/9: 1865-1670			
		Shoji & Esashi, "Micro flow cell for blood gas analysis realizing very small sample volume" (1992), Sensors and Actuators, B8: 205-208.			
		Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon" (1994), Automat Analyt Tech., 40: 43-47.			
		Wilding et al., Manipulation and Flow of Biological Fluids in Straight Channels. Micromachined in Sificon (1994), Clin. Chem., 40/1: 43-47.			
			╀		
			$\frac{1}{2}$		

T		i e
Examiner	Date	
Signature	 Considered	

*EXAMINER: Initial if reference consistence, whether or not clasion is in conformance with MPEP dos. Craw line through clasics if not in conformance and not consistence include copy of this form with noted construction in applicant.

Surgen Hour Statement: This turn) is estimated to take 2.0 hours to complete. Time will very depunding upon the needs of the individual case. Any comments on the executed of time you are required to contracts this form groups the sent to the Chief information prices; U.S. Patent and Tradeback Office, Washington OC 20231, DO NOT SEND FRES OF The Patent and Tradeback Office, Washington, OC. 20231

¹ Unique citation designation number. ³ Applicant is to place a check mark here if English translation is experient.